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Thompson, Matthew G. see Crane, Travis G., ME Mar./Apr. 99, p37-42

Thompson, Paul J.

see Crane, Travis G., ME Mar./Apr. 99, p37-42 Tippett, Donald D.

Managing Computer-Aided Civil Engineering Design Services, with Paul LaHoud, P.E., ME Mar./Apr. 99,

Vasilakopoulou, Eleni

see deMonsabert, Sharon, ME Jan./Feb. 99, pS4-61

Veal, Steven C., P.E.

Environmental Advisor. Storm-Water Management: How Much Longer Can Permanent Controls Be Avoided? ME Sept./Oct. 99, p26-27

Walesh, Stuart G., P.E. Editor's Letter. DAD is Out, POP Is In, ME Jan./Feb. 99, p3 Editor's Letter. Roles—Then Goals, ME Mar/Apr. 99,

Weingardt, Richard E., P.E. see Lewis, Brian J., P.E., ME Jan./Feb. 99, p4-12

Weingardt, Richard G., P.E.

Leadership: The World is Run by Those Who Show Up, ME July/Aug. 97, p61-66 disc: Robert B. Johnson, ME Jan./Feb. 99, p90-92 clo: ME Jan./Feb. 99, p92

Williamson, Craig E. see Dunston, Phillip S., ME Sept./Oct. 99, p56-60

Wong, Tommy S. W. disc. (of Balancing Corporate and Personal Values, by Richard H. McCuen, ME Mar/Apr. 98, p40-44), ME Mar./Apr. 99, p94

Woodward, Hugh

see Laufer, Alexander, ME Mar / Apr. 99, p79-84

Wright, Bob

see Lewis, Brian J., P.E., ME Sept./Oct. 99, p4-24

Zipf, Peter J., P.E. The Essential Project Management Manual, ME Mar./ Apr. 99, p34-36

